

SUBSTITUTE FORM PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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08173/009001

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08/846,916

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

APPLICANT:
Gordon R. Knight, et al.

FILING DATE
April 29, 1997

GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	1	0	5	4	0	8	4/14/92	Lee, et al.	369	44.15	
	AB	5	1	2	5	7	5	0	6/30/92	Corle, et al.	359	819	
	AC	5	4	9	7	3	5	9	3/5/96	Mamin, et al.	369	44.15	
	AD	5	2	0	2	8	8	0	4/13/93	Lee et al.	369	275.4	
	AE	5	4	7	0	6	2	7	11/28/95	Lee et al.	428	64.4	
	AF	5	2	3	2	5	7	0	8/3/93	Haines et al.	204	192.16	
	AG	5	1	5	3	8	7	0	10/6/92	Lee et al.	369	111	
	AH	5	2	2	3	7	1	0	6/29/93	Pavlak	250	230	
	AI	4	9	6	5	7	8	0	10/23/90	Lee et al.	369	13	
	AJ	4	9	8	7	2	9	2	1/22/91	Howard	250	201.5	
	AK	5	0	2	0	0	4	0	5/28/91	Lee	369	13	
	AL	5	1	1	2	6	6	2	5/12/92	Ng	428	64	
	AM	5	1	1	5	3	6	3	5/19/92	Khan et al.	360	104	
	AN	5	1	2	8	2	1	6	7/7/92	Ng	428	695	
	AO	5	1	2	0	6	0	3	6/9/92	Schmidt	428	336	
	AP	5	1	6	1	1	3	4	11/3/92	Lee	369	13	
	AQ	5	1	8	2	4	4	4	1/26/93	Howard	250	201.5	
	AR	5	1	9	1	5	6	3	3/2/93	Lee et al.	369	13	
	AS	5	2	4	3	2	4	1	9/7/93	Wang	310	36	
	AT	5	2	4	7	5	1	0	9/21/93	Lee et al.	369	118	
	AU	5	2	6	0	9	2	8	11/9/93	Lee et al.	369	112	
	AV	5	3	0	7	3	3	6	4/26/94	Lee et al.	369	112	
	AW	5	3	8	1	4	0	2	1/10/95	Lee et al.	369	291	
	AX	5	4	5	2	2	8	3	9/19/95	Lee et al.	369	112	
	AY	5	4	6	7	2	3	8	11/14/95	Lee et al.	360	128	
	AZ	5	4	8	6	9	7	0	1/23/96	Lee et al.	360	128	
	BA	1	4	5	5	5	0	4	5/15/23	D.E. Odem			
	BB	3	6	0	9	7	2	1	9/28/71	William E. Meneley	340	174.IE	
	BC	3	8	9	7	0	6	9	7/29/75	Lee	274	47	
	BD	4	1	0	1	9	4	8	7/18/78	Tadokoro, et al.	360	137	
	BE	4	5	1	9	0	5	9	5/21/85	Denis	369	74	
	BF	4	6	2	2	6	1	8	11/11/86	Oishi, et al.	360	133	

	BG	4	6	6	1	8	7	4	4/28/97	Buehl, et al.	360	128	
	BH	5	1	3	6	4	4	8	8/4/92	Kiriyama, et al.	360	128	
	BI	5	2	2	8	0	2	2	7/13/93	Compton, et al.	369	72	
	BJ	5	6	0	2	8	2	0	2/11/97	Wickramasinghe et al.	369	126	
	BK	5	4	4	5	0	1	1	8/29/95	Ghislain et al.	250	306	
	BL	5	2	8	8	9	9	7	2/22/94	Betzig et al.	359	356	
	BM	5	1	2	1	2	5	6	6/9/92	Corle	359	356	
	BN	5	6	0	2	8	1	9	2/11/97	Inagaki et al.	369	112	
	BO	5	5	4	1	8	8	8	7/30/96	Russell	369	112	
	BP	4	7	5	3	5	2	1	6/28/88	Deserno	359	663	
	BQ	5	4	5	0	3	7	9	8/1993	Fujimori et al.	369	275.1	
	BR	5	6	3	1	8	9	3	12/94	Kang et al.	369	44.15	
	BR-2	4	7	9	44	5	8	6	12/27/88	Korth	369	215	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BS	62-204421	9/9/87	Japan	5	41	X	
	BT	62-31080	2/10/87	Japan	23	03	X	

OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)

	BU	Hayashi, S., et al., "Solid Immersion Lens for Optical Storage," Stanford University, G.L. Report No. document)
	BV	Ichimura, Isao, et al., "High Density Optical Recording Using a Solid Immersion Lens," Stanford University, November 1995, pp. 1-22 and Figs. 1-17.
	BW	Mamin, H.J., et al., "High density optical recording with a flying solid immersion lens," presented at Conference in San Diego, California in May, 1995, pp 1-2.
	BX	Terris, B.D., et al., "Near-field optical data storage using a solid immersion lens," <i>Applied Physics Letters</i> 1994, pp. 388-390
	BY	Rubin, Kurt A., et al., "Volumetric Magneto-Optic Storage on Multiple Recording Surfaces", July 8-12, 1996, Volume 12
	BZ	Kashiwagi, Toshiyuki, "Dual Layer Disk Overview", <i>Technical Digest</i> , 1996, Volume 12
	CA	Maeda, Fumisada, et al., "High Density Optical Disk System Using a New Two-Element Lens and a Thin Substrate," Sony Corporation, pgs. 342-344
	CB	Rubin, Kurt A., et al., "Multilevel Volumetric Optical Storage", SPIE Vol. 2338 <i>Optical Data Storage</i> 1996, pp. 1-10

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08173-009005	Application No.
	Applicant Gordon R. Knight, et al.		
	Filing Date	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5004307	4/1991	Kino et al.			
	AB	5125750	6/1992	Corle et al.			
	AC	5220403	6/1993	Batchelder et al.			
	AD	5497359	3/1996	Mamin et al.			
	AE	5729393	3/1998	Lee et al.			
	AF	5764613	6/1998	Yamamoto et al.			
	AG	5,625,609	Apr. 29, 1997	Latta et al.			
	AH	5,574,709	Nov. 12, 1996	Takeda			
	AI	5,355,356	10/94	Johann et al.			
	AJ	5,274,509	12/93	Buch			
	AK	4,917,462	4/90	Lewis			
	AL	5,270,998	12/93	Uchiumi			
	AM	5,422,872	6/95	Hsu et al.			
	AN	4,641,023	2/87	Ando et al.			
	AO	4,815,059	3/89	Nakayama et al.			
	AP	5,764,613	6/98	Yamamoto et al.			
	AQ	6214482	4/01	Jahnes et al.			
	AR	5786078	7/98	Sekiya et al.			
	AS	5736240	4/98	Hintz			
	AT	5654058	8/97	Kirino et al.			
	AU	5498507	3/96	Handa et al.			
	AV	5497359	3/96	Mamin et al.			
	AW	5109375	4/92	Greidanus et al.			
	AX	4633450	12/86	Gueugnon			
	AY	5197050	3/93	Murakami et al.			
	AZ	5255260	10/93	Yamada et al.			
	AAA	5295122	3/94	Murakami et al.			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08173-009005	Application No.
	Applicant Gordon R. Knight, et al.		
	Filing Date	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	5432763	7/95	Campbell et al.			
	ACC	5537378	7/96	Uehara et al.			
	ADD	5506828	4/96	Kanno et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AEE	1-161308	6/89	Japan			X	
	AFF	EP0280366A1	8/88	EPO				
	AGG	EP0727777A1	8/96	EPO				
	AHH	JP-04-184725	7/92	Japan - abstract				
	AII	JP-08-007313	1/96	Japan - abstract				
	AJJ	JP-08-315404	11/96	Japan - abstract				
	AKK	JP-61-150394	7/86	Japan - abstract				
	ALL	503607A2	9/92	EP				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AMM	Yamamoto et al., "0.8 Numerical Aperture Two Element Objective Lens for the Optical Disk," ISOM/ODS'96, Conference in Maui, Hawaii (USA), Research Center, Sony Corporation, pages 43a-43c, July 8-12, 1996
	ANN	Betzig et al., "Near-field magneto-optics and high density data storage," Appl. Phys. Lett. Vol. 61, No. 2, pages 142-144, July 13, 1992
	AOO	
	APP	

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	